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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,956	10/31/2003	Martin Scholz	16104-014001 / 2003P00684	8804
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EXAMINER DUNN, DARRIN D				
ART UNIT 2121		PAPER NUMBER		
NOTIFICATION DATE 06/02/2009		DELIVERY MODE ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PATDOCTC@fr.com

Office Action Summary

Application No.

10/698,956

Applicant(s)

SCHOLZ ET AL.

Examiner

DARRIN DUNN

Art Unit

2121

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 30 January 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SE/US)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. The Office Action is responsive to the communication filed on 01/30/09.
2. Claims 1-20 are pending in the application.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
 2. Ascertaining the differences between the prior art and the claims at issue.
 3. Resolving the level of ordinary skill in the pertinent art.
 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
5. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Coker et al. (USPN 2007/0250840) in view over Lee et al. (USPN 20040088700) and in further view over Balducci et al. (USPN 20040103174)
 6. As per claims 1 and 10, Coker et al. teaches which code (i) is configured to be stored on the client device and be executed during each of subsequent communications between the client

device and the server device ([0307-0309] e.g., client includes a component called a busy state manager configured to monitor and inform a user of a status and progress of the submitted request), and (ii) when executed blocks the client device from receiving user input during the communications between the client device and the server device ([0309] e.g., client can inform the user that request processing has started and lock the user interface), determines whether any of the communications between the client device and the server device lasts longer than a specific time, and, upon determining that the specific time has been exceeded, causes a message provided in the code to be presented to a user of the client device ([0309-0310] e.g., upon determining that the request from the client may take a long time to process, the server will notify the client accordingly....the client can update the progress bar to show how much of the task has been completed at that point in time.

However, Coker et al. does not teach the server providing executable code to the client computer, i.e., providing the busy-state manager component to a client computer). Lee et al. teaches a system for automatically installing software on a client via a server ([ABSTRACT], [FIG 1])

Therefore, at the time the invention was made, one of ordinary skill in the art would have motivation to install client components using software stored on a server. Lee et al. teaches that enterprises employ client-server models to facilitate the configuration of a client computer via downloading necessary application software ([0004-0006]). Coker et al. teaches that various types of clients can be supported....the various types of clients including remote clients ([0063]), and in addition, teaches that clients can download a subset of server's data to use locally ([0070]). Therefore, in client-server interactions, as taught by Lee et al. it would have been

obvious to enable a server to provide necessary components to remote clients to facilitate server-client interactions, including downloading necessary components to a client. Here, it would have been obvious to download a busy-state manager component to a remote client via an application server.

However, Coker et al., as modified, does not teach that the client device is configured to engage in communications with the server device for a plurality of application programs. Coker et al. does teach that the client computer makes requests to the server such that particular tasks may be executed on the server, and in response to the client request the client computer is locked ([0309-0310] e.g., it is interpreted that the client request is not tied to any particular program such that any program on the client computer that should make a request to the server for server processing would result in the client computer becoming locked). Balducci et al. teaches an application program, i.e., Microsoft Outlook, on the client computer ([0024]) and in addition teaches that the client may delete content within the server ([0075]).

Therefore, it would have been obvious to one of ordinary skill in the art to apply the "lock mechanism" (e.g., client code used to lock the client computer), as taught by Coker et al., to be applicable to any program (e.g., Outlook) on the client computer that would require external server processing. Since a client may send a delete request, for example, to a server that could take longer than a reasonable time (e.g., server is backed up), it would have been obvious to apply the "lock mechanism" to any program making such a request that would require the client to be locked. During the period in which the client is locked, the user would be informed that a request is taking longer than expected, as taught by Coker et al. Balducci et al. illustrates that an application program, such as Outlook, may send a request to the server, in turn locking the

client during this task, as taught by Coker et al. (e.g., as in the case of emptying a folder on the server or synchronizing a client and server)

7. As per claim 2, Coker et al. teaches the method of claim 1, wherein the executable code is client-side framework code provided from the framework code in the server device that controls communication between the server device and the client device ([0306-0310] e.g., busy state manager component is stored on the client, i.e. client side framework, provided from the framework code in the server device (e.g., as modified, an application server provides the busy state component to the client), where the framework code controls communication between the client and server, i.e., client is informed by the server communication will last longer than expected, and in response, the client user interface is locked. Controlling communication is interpreted as corresponding to informing the client device of a process status)

8. As per claim 3, Lee et al. teaches the method of claim 1, further comprising providing the executable code in response to the server device receiving a request from the client device to launch at least one of the application program capable of initiating the communications ([0011] e.g., automatically installing software on a client via a client login request. As interpreted, a login request is an application program that initiates the request for the executable code. As applied to Coker et al., the busy-state component could be downloaded in response to the client request for the component by following the steps provided in paragraph 0011). Once the “lock mechanism” is installed in the client computer (e.g., code may be installed on the client computer via a provisioning service), any program that could make a request to a server that requires a “lock” to be implemented during the request could be launched. For example, a user makes a delete request to the server using Outlook. The client is locked during the delete

request. The client code would lock the client during the use Outlook delete request to the server. If the request takes longer than expected, the client informs the user.

9. As per claim 4, Coker et al., as modified, teaches the method of claim 3, further comprising providing application program code from at least on the application programs to the client device wherein the message is an over-definition of a default message that would otherwise be presented. (As modified by Coker et al., [0309], Outlook provides a status bar, i.e., code, during a delete request. The status bar is displayed to the user with a progress indicator, i.e., over-definition. As per the applicant's background section, "sudden displays of messages and sudden disappearances" are unnecessary. As applied to Coker et al., it would have been obvious to display the indicator when the request is going to take longer than expected and to not display the progress bar as to avoid unnecessary disruptions, i.e., "otherwise be presented."
10. As per claim 5, Coker et al. teaches the method of claim 1, wherein a communication lasts longer than the specific time due to network delays, server-side delays, or combinations thereof ([0309] e.g., request ling-running server operations i.e., server-side delays)
11. As per claim 6, Coker et al. teaches the method of claim 1, wherein a communication lasts longer than the specific time when the client device has not displayed a server response within the specific time ([0309-0314] e.g., once the client is informed by the server that the request may take a long time to process in view of the requests from a client, it would have been obvious to provide an indication that the client request is taking longer than expected, i.e., not displaying a server response, to the client request)
12. As per claim 7, Coker et al. teaches the method of claim 1, wherein the executable code

ceases to block the client device from receiving user input after each communication has ended ([0310] e.g., client continues to lock the interface until the request processing is completed)

13. As per claim 8, Coker et al. teaches the method of claim 1, wherein the executable code causes the message to be presented on the client device during one of the communication and causes the client device to cease presenting the message after that communication has ended ([0310] e.g., as best understood, the busy manager causes the notification to be presented to the user and causes the client to cease presenting the message when the request processing is completed)

14. As per claim 9, Coker et al. teaches the method of claim 1, further comprising setting the specific time based on at least one selected from the group consisting of: a roundtrip time for a communication between the server device and the client device, typical roundtrip times for communication between the server device and the client device, a roundtrip time expected by at least one user of the client device, and combinations thereof ([0314] e.g., roundtrip to the server, including the request from the client to the server and a response notification to the server, in view of [0310] e.g., determining the request is taking longer than expected, is interpreted that determining a request may take a long time to process is a function of a round trip, i.e., request from a client to server and response notification)

15. As per claim 11, Coker et al., as modified, teaches a method of informing a user about communications between a client device and a server device, the method comprising:

storing the executable code on the client device, the executable code configured to be executed during each of subsequent communications between the client device and the server device ([0306-0310] e.g., busy-manager component);

blocking, per the executable code, the client device from receiving user input during its communications with a server device ([0309-0310]);

determining whether any of the communications lasts longer than a specific time; and presenting, per the executable code, a message provided in the code to a user of the client device upon determining that any of the communications lasts longer than the specific time ([0310] e.g. server notifies client that the request may take a long time to finish)

However, Coker et al. does not teach the server providing executable code to the client computer, i.e., providing the busy-state manager component to a client computer). Lee et al. teaches a system for automatically installing software on a client via a server ([ABSTRACT], [FIG 1])

Therefore, at the time the invention was made, one of ordinary skill in the art would have motivation to install client components using software stored on a server. Lee et al. teaches that enterprises employ client-server models to facilitate the configuration of a client computer via downloading necessary application software ([0004-0006]). Coker et al. teaches that various types of clients can be supported....the various types of clients including remote clients ([0063]), and in addition, teaches that clients can download a subset of server's data to use locally ([0070]). Therefore, in client-server interactions, as taught by Lee et al. it would have been obvious to enable a server to provide necessary components to remote clients to facilitate server-client interactions, including downloading necessary components to a client. Here, it would have been obvious to download a busy-state manager component to a remote client via an application server.

However, Coker et al., as modified, does not teach that the client device is configured to engage in communications with the server device for a plurality of application programs. Coker et al. does teach that the client computer makes requests to the server such that particular tasks may be executed on the server, and in response to the client request the client computer is locked ([0309-0310] e.g., it is interpreted that the client request is not tied to any particular program such that any program on the client computer that should make a request to the server for server processing would result in the client computer becoming locked). Balducci et al. teaches an application program, i.e., Microsoft Outlook, on the client computer ([0024]) and in addition teaches that the client may delete content within the server ([0075]).

Therefore, it would have been obvious to one of ordinary skill in the art to apply the "lock mechanism" (e.g., client code used to lock the client computer), as taught by Coker et al., to be applicable to any program (e.g., Outlook) on the client computer that would require external server processing. Since a client may send a delete request, for example, to a server that could take longer than a reasonable time (e.g., server is backed up), it would have been obvious to apply the "lock mechanism" to any program making such a request that would require the client to be locked. During the period in which the client is locked, the user would be informed that a request is taking longer than expected, as taught by Coker et al. Balducci et al. illustrates that an application program, such as Outlook, may send a request to the server, in turn locking the client during this task, as taught by Coker et al. (e.g., as in the case of emptying a folder on the server or synchronizing a client and server)

16. As per claim 12, Coker et al. teaches the method of claim 11, wherein the presented message is an over-definition of a default message e.g., supra claim 4 discussion)

17. As per claim 13, Coker et al. teaches the method of claim 11, further comprising setting the specific time based on at least one selected from the group consisting of: a roundtrip time for a communication between the server device and the client device, typical roundtrip times for communication between the server device and the client device, a roundtrip time expected by at least one user of the client device, and combinations thereof ([0314] e.g., roundtrip to the server, including the request from the client to the server and a response notification to the server, in view of [0310] e.g., determining the request is taking longer than expected, is interpreted that determining a request may take a long time to process is a function of a round trip, i.e., request from a client to server and response notification)

18. As per claim 14, Coker et al. teaches a computer program product containing executable instructions that when executed cause a processor to perform operations comprising:

- block a client device from receiving user input during its communications with a server device ([0309] e.g., locking user interface);

- determine whether any of the communications lasts longer than a specific time;

- cause a message provided in the computer program product to be presented to a user of the client device if determining that any of the communications lasts longer than the specific time ([0309-0310]);

- wherein the computer program product is configured to be provided from the server device to the client device, be stored on the client device and to be executed during each of the communications between the client device and the server device (e.g., supra claim 1)

19. As per claim 15, Coker et al. teaches a computer system comprising:

- a server device with server-side framework code which when executed on the server device

establishes a client-server framework for client-server communications ([Fig 2], [Fig 13] e.g., client-server communications with executable code),; and

code (i) is configured to be stored on the client device and be executed during each of subsequent communications between the client device and the server device ([0307-0309] e.g., client includes a component called a busy state manager configured to monitor and inform a user of a status and progress of the submitted request), and (ii) when executed blocks the client device from receiving user input during the communications between the client device and the server device ([0309] e.g., client can inform the user that request processing has started and lock the user interface), determines whether any of the communications between the client device and the server device lasts longer than a specific time, and, upon determining that the specific time has been exceeded, causes a message provided in the code to be presented to a user of the client device ([0309-0310] e.g., upon determining that the request from the client may take a long time to process, the server will notify the client accordingly....the client can update the progress bar to show how much of the task has been completed at that point in time.

However, Coker et al. does not teach the server providing executable code to the client computer, i.e., providing the busy-state manager component to a client computer). Lee et al. teaches a system for automatically installing software on a client via a server ([ABSTRACT], [FIG 1])

Therefore, at the time the invention was made, one of ordinary skill in the art would have motivation to install client components using software stored on a server. Lee et al. teaches that enterprises employ client-server models to facilitate the configuration of a client computer via downloading necessary application software ([0004-0006]). Coker et al. teaches that various

types of clients can be supported....the various types of clients including remote clients ([0063]), and in addition, teaches that clients can download a subset of server's data to use locally ([0070]). Therefore, in client-server interactions, as taught by Lee et al. it would have been obvious to enable a server to provide necessary components to remote clients to facilitate server-client interactions, including downloading necessary components to a client. Here, it would have been obvious to download a busy-state manager component to a remote client via an application server.

However, Coker et al., as modified, does not teach that the client device is configured to engage in communications with the server device for a plurality of application programs. Coker et al. does teach that the client computer makes requests to the server such that particular tasks may be executed on the server, and in response to the client request the client computer is locked ([0309-0310] e.g., it is interpreted that the client request is not tied to any particular program such that any program on the client computer that should make a request to the server for server processing would result in the client computer becoming locked). Balducci et al. teaches an application program, i.e., Microsoft Outlook, on the client computer ([0024]) and in addition teaches that the client may delete content within the server ([0075]).

Therefore, it would have been obvious to one of ordinary skill in the art to apply the "lock mechanism" (e.g., client code used to lock the client computer), as taught by Coker et al., to be applicable to any program (e.g., Outlook) on the client computer that would require external server processing. Since a client may send a delete request, for example, to a server that could take longer than a reasonable time (e.g., server is backed up), it would have been obvious to apply the "lock mechanism" to any program making such a request that would require the client

to be locked. During the period in which the client is locked, the user would be informed that a request is taking longer than expected, as taught by Coker et al. Balducci et al. illustrates that an application program, such as Outlook, may send a request to the server, in turn locking the client during this task, as taught by Coker et al. (e.g., as in the case of emptying a folder on the server or synchronizing a client and server)

20. As per claim 16, Coker et al. teaches the method of claim 15, wherein a communication lasts longer than the specific time due to network delays, server-side delays, or combinations thereof ([0309] e.g., request ling-running server operations i.e., server-side delays)

21. As per claim 17, Coker et al. teaches the method of claim 15, wherein the presented message is an over-definition of a default message (e.g., supra claim 4 discussion)

22. As per claim 18, Coker et al. teaches the computer system of claim 15, wherein the client-side framework code causes the message to be displayed on the client device ([0306-0310] e.g., busy state manager)

23. As per claim 19, Coker et al. teaches the computer system of claim 15, wherein the specific time is based on at least one selected from the group consisting of: typical roundtrip times for communication between the server device and the client device, a roundtrip time expected by at least one user of the client device, and combinations thereof ([0314] e.g., roundtrip to the server, including the request from the client to the server and a response notification to the server, in view of [0310] e.g., determining the request is taking longer than expected, is interpreted that determining a request may take a long time to process is a function of a round trip, i.e., request from a client to server and response notification)

24. As per claim 20, Coker et al. teaches the computer system of claim 15, wherein at least one roundtrip time for communication between the server device and the client device is recorded and the specific time is set based on the at least one roundtrip time ([0314] e.g., in light of 0309-0310, a determination is made that a request will take longer than expected. The roundtrip, i.e., request to client and notification from server to client, is understood as being part of the determination that a request received from a client may take a long time to process. Thus, the determination would require that the roundtrip time be known, and if this time (request by client and server response) is going to take longer than expected, a message would be presented to the user)

Response to Arguments

25. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection.

The Examiner has applied a) code on the client computer used to "lock" the client computer b) the code is initially received from the server as in the case of a provisioning server c) an application program, i.e., Outlook, on the client computer that requires the client to be locked for a particular Outlook request to the server and d) if the Outlook request requests takes longer than necessary, inform the user via a status bar opposed to unnecessarily informing the user for requests that should occur very quickly.

Issue A]

Coker et al., does not tie the "lock mechanism" to any particular application on the client computer. Rather, an application of the client capable of making a request to the server could

trigger the lock mechanism when it is necessary to do so. As modified, one application is Outlook. It is understood that during a delete request from a client to a server using Outlook on the client side, the client lock mechanism would be triggered because it is obvious to prevent the user from interfering with the operation. Furthermore, the Examiner notes that synchronization programs are other applications on the client that require the client to be locked. If this delete and/or synchronization operation should take longer than expected, the user is informed. Otherwise, the user is not informed as to avoid unnecessary status displays.

Conclusion

26. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DARRIN DUNN whose telephone number is (571)270-1645. The examiner can normally be reached on EST:M-R(8:00-5:00) 9/5/4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on (571) 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/DD/
05.26.09

/Albert DeCady/
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